

* * * * * Welcome to STN International * * * * *

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 saved answer sets no longer valid
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 NEWS 18 Aug 08 NTIS has been reloaded and enhanced
 NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
 now available on STN
 NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
 NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
 NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
 NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
 NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
 CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
 AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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0.21

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FILE 'WPIDS' ENTERED AT 11:39:02 ON 30 SEP 2002
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=> s uracil (3w) glycosylase
L1 4563 URACIL (3W) GLYCOSYLASE

=> s l1 (10a) temperature
L2 28 L1 (10A) TEMPERATURE

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 11 DUP REM L2 (17 DUPLICATES REMOVED)

=> d 1-11

L3 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2002 ACS

☐ Full Text ☒ Citing References

AN 2002:206497 HCAPLUS
TI Identification, cloning, and expression of uracil-DNA glycosylase from Atlantic cod (Gadus morhua): Characterization and homology modeling of the cold-active catalytic domain
AU Lanes, Olav; Leiros, Ingar; Smalas, Arne O.; Willassen, Nils Peder
CS Department of Molecular Biotechnology, Institute of Medical Biology, Faculty of Medicine, University of Tromso, Tromso, N-9037, Norway
SO Extremophiles (2002), 6(1), 73-86
CODEN: EXTRFI; ISSN: 1431-0651
PB Springer-Verlag Tokyo
DT Journal
LA English
RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2002 ACS

☐ Full Text ☒ Citing References

AN 2001:526184 HCAPLUS
 DN 135:118777
 TI Cloning, purification and characterization of cod uracil-DNA glycosylase
 and the use of the enzyme in monitoring or controlling PCR
 IN Lanes, Olav; Willasen, Nils Peder; Guddal, Per Henrik; Gjellesvik, Dag
 Rune
 PA Biotec Asa, Norway
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001051623	A1	20010719	WO 2001-NO8	20010110
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	NO 2000000163	A	20010713	NO 2000-163	20000112
	NO 2000005428	A	20010713	NO 2000-5428	20001027
PRAI	NO 2000-163	A	20000112		
	NO 2000-5428	A	20001027		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2002 ACS

Full Text Citing References

AN 2001:899318 HCAPLUS
 DN 136:397799
 TI Excision of uracil from DNA by the hyperthermophilic Afung protein is dependent on the opposite base and stimulated by heat-induced transition to a more open structure
 AU Knaevelsrud, Ingeborg; Ruoff, Peter; Anensen, Hilde; Klungland, Arne; Bjelland, Svein; Birkeland, Nils-Kare
 CS Stavanger University College, School of Science and Technology, Stavanger, Ullandhaug, N-4091, Norway
 SO Mutation Research (2001), 487(3-4), 173-190
 CODEN: MUREAV; ISSN: 0027-5107
 PB Elsevier Science B.V.
 DT Journal
 LA English

RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2002 ACS

Full Text Citing References

AN 1999:46212 HCAPLUS
 DN 131:68613
 TI Influence of residual uracil-DNA glycosylase activity on the electrophoretic migration of dUTP-containing PCR products
 AU Ritzler, Michael; Perschil, Inge; Altwegg, Martin
 CS Department of Medical Microbiology, University of Zurich, Zurich, CH-8028, Switz.
 SO Journal of Microbiological Methods (1999), 35(1), 73-76
 CODEN: JMIMDQ; ISSN: 0167-7012
 PB Elsevier Science Ireland Ltd.
 DT Journal
 LA English

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 11 MEDLINE DUPLICATE 1

Full Text	Citing References
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AN 1998371090 MEDLINE
 DN 98371090 PubMed ID: 9705390
 TI Rapid and specific detection of toxigenic Staphylococcus aureus: use of two multiplex PCR enzyme immunoassays for amplification and hybridization of staphylococcal enterotoxin genes, exfoliative toxin genes, and toxic shock syndrome toxin 1 gene.
 AU Becker K; Roth R; Peters G
 CS Institute of Medical Microbiology, University of Munster, 48149 Munster, Germany.. kbecker@uni-muenster.de
 SO JOURNAL OF CLINICAL MICROBIOLOGY, (1998 Sep) 36 (9) 2548-53.
 Journal code: 7505564. ISSN: 0095-1137.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199809
 ED Entered STN: 19980925
 Last Updated on STN: 19980925
 Entered Medline: 19980916

L3 ANSWER 6 OF 11 SCISEARCH COPYRIGHT 2002 ISI (R)DUPLICATE 2

Full Text	Citing References
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AN 1999:85432 SCISEARCH
 GA The Genuine Article (R) Number: 158GD
 TI Improvements in the RT-PCR detection of enteric viruses in environmental samples
 AU Schwab K J (Reprint); Neill F H; Estes M K; Atmar R L
 CS BAYLOR COLL MED, DIV MOL VIROL, 1 BAYLOR PLAZA, HOUSTON, TX 77030 (Reprint)
 CYA USA
 SO WATER SCIENCE AND TECHNOLOGY, (DEC 1998) Vol. 38, No. 12, pp. 83-86.
 Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND.
 ISSN: 0273-1223.
 DT Article; Journal
 FS AGRI
 LA English
 REC Reference Count: 7
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 7 OF 11 MEDLINE DUPLICATE 3

Full Text	Citing References
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AN 1998003594 MEDLINE
 DN 98003594 PubMed ID: 9343699
 TI Calibration and storage of DNA competitors used for contamination-protected competitive PCR.
 AU Kohler T; Rost A K; Remke H
 CS University of Leipzig, Department of Medicine, Germany.
 SO BIOTECHNIQUES, (1997 Oct) 23 (4) 722-6.
 Journal code: 8306785. ISSN: 0736-6205.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199802
 ED Entered STN: 19980217
 Last Updated on STN: 19990129
 Entered Medline: 19980204

L3 ANSWER 8 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1992:409673 BIOSIS
 DN BA94:72873
 TI MULTIPLE MUTANT OF ESCHERICHIA-COLI SYNTHESIZING VIRTUALLY THYMINELESS DNA DURING LIMITED GROWTH.
 AU EL-HAJJ H H; WANG L; WEISS B
 CS DEP. PATHOLOGY, UNIVERSITY MICHIGAN MEDICAL SCHOOL, ANN ARBOR, MICH. 48109-0602.
 SO J BACTERIOL, (1992) 174 (13), 4450-4456.
 CODEN: JOBAAY. ISSN: 0021-9193.
 FS BA; OLD
 LA English

L3 ANSWER 9 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE

4
 AN 1987:193078 BIOSIS
 DN BA83:101202
 TI THE PARTIAL PURIFICATION AND CHARACTERIZATION OF NUCLEAR AND MITOCHONDRIAL URACIL-DNA GLYCOSYLASE ACTIVITIES FROM ZEA-MAYS SEEDLINGS.
 AU BENSEN R J; WARNER H R
 CS DEP. BIOCHEM., COLL. BIOL. SCI., UNIV. MINN., ST. PAUL, MINN. 55108.
 SO PLANT PHYSIOL (BETHESDA), (1987) 83 (1), 149-154.
 CODEN: PLPHAY. ISSN: 0032-0889.
 FS BA; OLD
 LA English

L3 ANSWER 10 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1983:142119 BIOSIS
 DN BR25:67119
 TI BASE EXCISION REPAIR IN THE THERMOPHILE THERMUS-SP STRAIN X-1.
 AU WARNER H R
 CS DEP. BIOCHEMSITRY, UNIV. MINN., ST. PAUL, MINN. 55108.
 SO J. Bacteriol., (1983) 154 (3), 1451-1454.
 CODEN: JOBAAY. ISSN: 0021-9193.
 FS BR; OLD
 LA English

L3 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1980:144252 HCAPLUS
 DN 92:144252
 TI Alterations in the levels of deoxyuridine triphosphatase, uracil-DNA glycosylase and AP endonuclease during the cell cycle
 AU Duker, Nahum J.; Grant, Carol L.
 CS Fels Res. Inst., Temple Univ., Philadelphia, PA, 19140, USA
 SO Exp. Cell Res. (1980), 125(2), 493-7
 CODEN: ECREAL; ISSN: 0014-4827
 DT Journal
 LA English

=> s 11 and cod

L4 19 L1 AND COD

=> dup rem 14

PROCESSING COMPLETED FOR L4

L5 5 DUP REM L4 (14 DUPLICATES REMOVED)

=> d 1-5

L5 ANSWER 1 OF 5 MEDLINE

DUPLICATE 1

Full Text Citing References

AN 2002144866 MEDLINE
 DN 21867342 PubMed ID: 11878565
 TI Identification, cloning, and expression of **uracil-DNA glycosylase** from Atlantic **cod** (*Gadus morhua*): characterization and homology modeling of the cold-active catalytic domain.
 AU Lanes Olav; Leiros Ingar; Smalas Arne O; Willassen Nils Peder
 CS Department of Molecular Biotechnology, Institute of Medical Biology, Faculty of Medicine, University of Tromso, Norway.
 SO EXTREMOPHILES, (2002 Feb) 6 (1) 73-86.
 Journal code: 9706854. ISSN: 1431-0651.
 CY Germany; Germany, Federal Republic of
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Space Life Sciences
 OS GENBANK-AJ275971; GENBANK-AJ275972
 EM 200209
 ED Entered STN: 20020307
 Last Updated on STN: 20020906
 Entered Medline: 20020904

L5 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2002 ACS

DUPLICATE 2

Full Text Citing References

AN 2001:526184 HCAPLUS
 DN 135:118777
 TI Cloning, purification and characterization of **cod uracil-DNA glycosylase** and the use of the enzyme in monitoring or controlling PCR
 IN Lanes, Olav; Willasen, Nils Peder; Guddal, Per Henrik; Gjellesvik, Dag Rune
 PA Biotec Asa, Norway
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001051623	A1	20010719	WO 2001-NO8	20010110
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	NO 2000000163	A	20010713	NO 2000-163	20000112
	NO 2000005428	A	20010713	NO 2000-5428	20001027
PRAI	NO 2000-163	A	20000112		
	NO 2000-5428	A	20001027		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full Text

AN 2001-14048 BIOTECHDS
 TI New **cod** liver **uracil-DNA-glycosylase** enzyme, useful in monitoring or controlling a reaction system multiplying DNA sequences or in carry-over prevention procedures;
 plasmid, cosmid, virus vector-mediated gene transfer and expression in

Escherichia coli or mammal cell for polymerase chain reaction or
ligase chain reaction monitoring or controlling

AU Lanes O; Willassen N P; Guddal P H; Gjellesvik D R
PA Biotech-Tromso
LO Tromso, Norway.
PI WO 2001051623 19 Jul 2001
AI WO 2001-NO8 10 Jan 2001
PRAI NO 2000-5428 27 Oct 2000; NO 2000-163 12 Jan 2000
DT Patent
LA English
OS WPI: 2001-451854 [48]

L5 ANSWER 4 OF 5 MEDLINE

DUPLICATE 3

Full Text	Citing References
--------------	----------------------

AN 2001571674 MEDLINE
DN 21536080 PubMed ID: 11679752
TI Crystallization and preliminary X-ray diffraction analysis of a
cold-adapted **uracil**-DNA **glycosylase** from Atlantic **cod** (*Gadus morhua*).
AU Leiros I; Lanes O; Sundheim O; Helland R; Smalas A O; Willassen N P
CS Department of Chemistry, Faculty of Science, University of Tromso, N-9037
Tromso, Norway.
SO ACTA CRYSTALLOGRAPHICA. SECTION D: BIOLOGICAL CRYSTALLOGRAPHY, (2001 Nov)
57 (Pt 11) 1706-8.
Journal code: 9305878. ISSN: 0907-4449.
CY Denmark
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS PDB-1AKZ
EM 200112
ED Entered STN: 20011029
Last Updated on STN: 20020123
Entered Medline: 20011220

L5 ANSWER 5 OF 5 MEDLINE

DUPLICATE 4

Full Text	Citing References
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AN 2001128159 MEDLINE
DN 21010749 PubMed ID: 11126771
TI Purification and characterization of a cold-adapted **uracil**-DNA
glycosylase from Atlantic **cod** (*Gadus morhua*).
AU Lanes O; Guddal P H; Gjellesvik D R; Willassen N P
CS Department of Biotechnology, Institute of Medical Biology, Faculty of
Medicine, University of Tromso, Norway.
SO COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. PART B, BIOCHEMISTRY AND
MOLECULAR BIOLOGY, (2000 Nov) 127 (3) 399-410.
Journal code: 9516061. ISSN: 1096-4959.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200103
ED Entered STN: 20010404
Last Updated on STN: 20010404
Entered Medline: 20010301

=> d 5 ab

L5 ANSWER 5 OF 5 MEDLINE

DUPLICATE 4

Citing References

AB **Uracil**-DNA **glycosylase** (UDG; UNG) has been purified 17000-fold from
Atlantic **cod** liver (*Gadus morhua*). The enzyme has an apparent molecular

mass of 25 kDa, as determined by gel filtration, and an isoelectric point above 9.0. Atlantic cUNG is inhibited by the specific UNG inhibitor (Ugi) from the Bacillus subtilis bacteriophage (PBS2), and has a 2-fold higher activity for single-stranded DNA than for double-stranded DNA. cUNG has an optimum activity between pH 7.0-9.0 and 25-50 mM NaCl, and a temperature optimum of 41 degrees C. Cod UNG was compared with the recombinant human UNG (rhUNG), and was found to have slightly higher relative activity at low temperatures compared with their respective optimum temperatures. Cod UNG is also more pH- and temperature labile than rhUNG. At pH 10.0, the recombinant human UNG had 66% residual activity compared with only 0.4% for the Atlantic cUNG. At 50 degrees C, cUNG had a half-life of 0.5 min compared with 8 min for the rhUNG. These activity and stability experiments reveal cold-adapted features in cUNG.

=> dis his

(FILE 'HOME' ENTERED AT 11:38:41 ON 30 SEP 2002)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 11:39:02 ON 30 SEP 2002

L1 4563 S URACIL (3W) GLYCOSYLASE
L2 28 S L1 (10A) TEMPERATURE
L3 11 DUP REM L2 (17 DUPLICATES REMOVED)
L4 19 S L1 AND COD
L5 5 DUP REM L4 (14 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	31.27	31.48

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WEST Search History

DATE: Monday, September 30, 2002

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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L3	L2	9	L3
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L2	L1 near5 temperature	9	L2
L1	uracil adj3 glycosylase	446	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 9 of 9 returned.**☐ 1. Document ID: US 6235886 B1

L3: Entry 1 of 9

File: USPT

May 22, 2001

US-PAT-NO: 6235886

DOCUMENT-IDENTIFIER: US 6235886 B1

TITLE: Methods of synthesis and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 2. Document ID: US 6232463 B1

L3: Entry 2 of 9

File: USPT

May 15, 2001

US-PAT-NO: 6232463

DOCUMENT-IDENTIFIER: US 6232463 B1

TITLE: Substituted purines and oligonucleotide cross-linking

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 3. Document ID: US 5952176 A

L3: Entry 3 of 9

File: USPT

Sep 14, 1999

US-PAT-NO: 5952176

DOCUMENT-IDENTIFIER: US 5952176 A

TITLE: Glycosylase mediated detection of nucleotide sequences at candidate loci

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 4. Document ID: US 5935522 A

L3: Entry 4 of 9

File: USPT

Aug 10, 1999

US-PAT-NO: 5935522

DOCUMENT-IDENTIFIER: US 5935522 A

TITLE: On-line DNA analysis system with rapid thermal cycling

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 5. Document ID: US 5834607 A

L3: Entry 5 of 9

File: USPT

Nov 10, 1998

US-PAT-NO: 5834607

DOCUMENT-IDENTIFIER: US 5834607 A

TITLE: Amines and methods of making and using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 6. Document ID: US 5811534 A

L3: Entry 6 of 9

File: USPT

Sep 22, 1998

US-PAT-NO: 5811534

DOCUMENT-IDENTIFIER: US 5811534 A

TITLE: Substituted purines and oligonucleotide cross-linking

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 7. Document ID: US 5719271 A

L3: Entry 7 of 9

File: USPT

Feb 17, 1998

US-PAT-NO: 5719271

DOCUMENT-IDENTIFIER: US 5719271 A

TITLE: Covalently cross-linked oligonucleotides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 8. Document ID: US 5681941 A

L3: Entry 8 of 9

File: USPT

Oct 28, 1997

US-PAT-NO: 5681941

DOCUMENT-IDENTIFIER: US 5681941 A

TITLE: Substituted purines and oligonucleotide cross-linking

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 9. Document ID: US 5543507 A

L3: Entry 9 of 9

File: USPT

Aug 6, 1996

US-PAT-NO: 5543507

DOCUMENT-IDENTIFIER: US 5543507 A

TITLE: Covalently cross-linked oligonucleotides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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L2	9

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